



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED  
MAR 2 6 2002  
TECH CENTER 1600/2900

Applicant(s): Timothy E. Benson et al.

Group Art Unit: 1651

Serial No.: 09/932,474

Examiner: unknown

Confirmation No.: 6629

Filed: August 17, 2001

Docket No.: 00236.US1

For: CRYSTALLIZATION AND STRUCTURE DETERMINATION  
OF FEMA AND FEMA-LIKE PROTEINSAssistant Commissioner for Patents  
Washington, D.C. 20231

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

- ☒ An itemized return postcard.  
☐ A Petition for Extension of Time for \_\_\_ month(s) and a check in the amount of \$\_\_\_ for the required fee.  
☒ An Information Disclosure Statement (2 pgs); copies of 0 applications; 1449 forms (8 pgs); and copies of 91 documents cited on the 1449 forms.  
\_\_\_ A check in the amount of \$\_\_\_, for \_\_\_.  
\_\_\_ A certified copy of a \_\_\_ application, Serial No. \_\_\_, filed \_\_\_\_\_, the right of priority of which is claimed under 35 U.S.C. §119.  
\_\_\_ Other:  
\_\_\_ Amendment \_\_\_ No Additional fee is required. \_\_\_ The fee has been calculated as shown:

| Fee Calculation for Claims Pending After Amendment                            |                                    |                             |                                   |                           |                          |
|---|------------------------------------|-----------------------------|-----------------------------------|---------------------------|--------------------------|
|   | Pending Claims after Amendment (1) | Claims Paid for Earlier (2) | Number of Additional Claims (1-2) | Cost per Additional Claim | Additional Fees Required |
| Total Claims  |                                    |                             |                                   | x \$18 =                  |                          |
| Independent Claims  |                                    |                             |                                   | x \$84 =                  |                          |
| One or More New Multiple Dependent Claims Presented? If Yes, Add \$280 Here → |                                    |                             |                                   |                           |                          |
| Total Additional Claim Fees Required  |                                    |                             |                                   |                           |                          |

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. Triplicate copies of this sheet are enclosed.

**CERTIFICATE UNDER 37 C.F.R. §1.8:** The undersigned hereby certifies that this Transmittal Letter and the paper(s), as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Asst. Commissioner for Patents, Washington, D.C. 20231, on this 19th day of March, 2002.

MUETING, RAASCH &amp; GEBHARDT, P.A.

Customer Number: 26813



26813

PATENT TRADEMARK OFFICE

By:

Name: Loren D. Albin

Reg. No.: 37,763

Direct Dial: 612-305-1225

Facsimile: 612-305-1228

(LARGE ENTITY TRANSMITTAL UNDER RULE 1.8)



PATENT  
Docket No. 00236.US

RECEIVED  
MAR 26 2002  
TECH CENTER 1600/2900

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Timothy E. Benson et al. ) Group Art Unit: 1651  
Serial No.: 09/932,474 ) Examiner: unknown  
Confirmation No.: 6629 )  
Filed: August 17, 2001 )  
For: CRYSTALLIZATION AND STRUCTURE DETERMINATION  
OF FEMA AND FEMA-LIKE PROTEINS

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington D.C. 20231

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Consideration of each of the documents listed on the attached 1449 forms is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 forms, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

**Information Disclosure Statement**

Page 2 of 2

Applicant(s): Timothy E. Benson et al.

Serial No.: 09/932,474

Confirmation No.: 6629

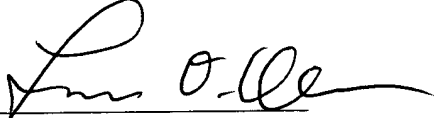
Filed: August 17, 2001

For: CRYSTALLIZATION AND STRUCTURE DETERMINATION  
OF FEMA AND FEMA-LIKE PROTEINS

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

**CERTIFICATE UNDER 37 C.F.R. 1.8:**

The undersigned hereby certifies that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on this 19th day of March, 2002.

  
Loren D. Albin

Respectfully submitted for  
**Timothy E. Benson et al.**

By

Mueting, Raasch & Gebhardt, P.A.

P.O. Box 581415

Minneapolis, MN 55458-1415

Phone: (612)305-1220

Facsimile: (612)305-1228

**Customer Number 26813**



**26813**

PATENT TRADEMARK OFFICE

March 19, 2002

Date

By: 

Loren D. Albin

Reg. No. 37,763

Direct Dial (612)305-1225

**INFORMATION  
DISCLOSURE  
STATEMENT**

Atty. Docket No.: 00236.US1

Serial No.: 09/932,474

Applicant(s): T. E. Benson et al.

Confirmation No.: 6629

Filing Date: August 17, 2001

Group: 1651

MAR 2 5 2002  
PATENT & TRADEMARK OFFICE**U.S. PATENT DOCUMENTS**

| Examiner Initial | Document Number | Date | Name | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------------|------|------|-------|----------|----------------------------|
|                  | none            |      |      |       |          |                            |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initial |  | Document Number | Date     | Country | Class | Subclass | Translation |    |
|------------------|--|-----------------|----------|---------|-------|----------|-------------|----|
|                  |  |                 |          |         |       |          | Yes         | No |
|                  |  | EP 786 519 A2   | 07/30/97 | Europe  |       |          |             |    |
|                  |  | WO 99/47639 A2  | 09/23/99 | PCT     |       |          |             |    |
|                  |  | WO 99/47639 A3  | 09/23/99 | PCT     |       |          |             |    |
|                  |  | WO 99/47662 A1  | 09/23/99 | PCT     |       |          |             |    |
|                  |  | WO 00/12678 A2  | 03/09/00 | PCT     |       |          |             |    |
|                  |  | WO 00/12678 A3  | 03/09/00 | PCT     |       |          |             |    |
|                  |  | WO 01/16292 A2  | 03/08/01 | PCT     |       |          |             |    |

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

| Examiner Initial | Document Description  |
|------------------|---|
|                  | Angus-Hill et al., "Crystal structure of the histone acetyltransferase Hpa2: A tetrameric member of the Gcn5-related <i>N</i> -acetyltransferase superfamily," <i>J Mol Biol.</i> 1999 Dec 17;294(5):1311-25.                                     |
|                  | Bartlett et al., "CAVEAT: A program to facilitate the structure-derived design of biologically active molecules," <i>Molecular Recognition: Chemical and Biological Problems</i> , Royal Society of Chemistry, Special Pub No. 78:182-196 (1989). |
|                  | Belshaw et al., "Aminoacyl-CoAs as probes of condensation domain selectivity in nonribosomal peptide synthesis," <i>Science.</i> 1999 Apr 16;284(5413):486-9.   |
|                  | Benson et al., "Overexpression, purification, and mechanistic study of UDP- <i>N</i> -acetylenolpyruvylglucosamine reductase," <i>Biochemistry.</i> 1993 Mar 2; 32(8):2024-30.  |
|                  | Berger-Bachi et al., "Mapping and characterization of multiple chromosomal factors involved in methicillin resistance in <i>Staphylococcus aureus</i> ," <i>Antimicrob Agents Chemother.</i> 1992 Jul;36(7):1367-73.                              |

**EXAMINER****Date Considered**

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

MAR 2 6 2002

RECEIVED

TECH CENTER 1600/2900

# INFORMATION DISCLOSURE STATEMENT

Atty. Docket No.: 00236.US1

Serial No.: 09/932,474

Applicant(s): T. E. Benson et al.

Confirmation No.: 6629

Filing Date: August 17, 2001

Group: 1651

TECH CENTER 1600/2900

MAR 2 6 2002

RECEIVED

| Examiner<br>Initial | Document Description   |
|---------------------|--|
|                     | BERGER-BACHI et al., "FemA, a host-mediated factor essential for methicillin resistance in <i>Staphylococcus aureus</i> : molecular cloning and characterization," <i>Mol Gen Genet</i> . 1989 Oct;219(1-2):263-9. |
|                     | Berger-Bachi et al., "Role of FEM factors in methicilline resistance," <i>Drug Resistance Updates</i> . 1998;1:325-335.  |
|                     | Biou et al., "The 2.9 Å crystal structure of <i>T. thermophilus</i> seryl-tRNA synthetase complexed with tRNA <sup>Ser</sup> ," <i>Science</i> . 1994 Mar 11;263(5152):1404-10.                                    |
|                     | Blundell et al., <i>Protein Crystallography</i> , Academic Press, New York, NY; title page, publication page, and table of contents only: 8 pages (1976).  |
|                     | Böhm, "The computer program LUDI: a new method for the de novo design of enzyme inhibitors," <i>J Comput Aided Mol Des</i> . 1992 Feb;6(1):61-78.  |
|                     | Brötz et al., "The lantibiotic mersacidin inhibits peptidoglycan biosynthesis at the level of transglycosylation," <i>Eur J Biochem</i> . 1997 May 15;246(1):193-9.  |
|                     | Brown et al., "MurA (MurZ), the enzyme that catalyzes the first committed step in peptidoglycan biosynthesis, is essential in <i>Escherichia coli</i> ," <i>J Bacteriol</i> . 1995 Jul;177(14):4194-7.             |
|                     | Brünger, "X-PLOR: Version 3.1, a System for X-Ray Crystallography and NMR," Yale University Press, New Haven, CT; cover page, publication page and table of contents only: 13 pages (1992).                        |
|                     | Brünger, "Recent developments for crystallographic refinement of macromolecules," <i>Methods Mol Biol</i> . 1996;56:245-66.  |
|                     | Bupp et al., "The final step of peptidoglycan subunit assembly in <i>Escherichia coli</i> occurs in the cytoplasm," <i>J Bacteriol</i> . 1993 Mar;175(6):1841-3.   |
|                     | Clements et al., "Crystal structure of the histone acetyltransferase domain of the human PCAF transcriptional regulator bound to coenzyme A," <i>EMBO J</i> . 1999 Jul 1;18(13):3521-32.                           |
|                     | Cohen, "Epidemiology of drug resistance: implications for a post- antimicrobial era," <i>Science</i> . 1992 Aug 21;257(5073):1050-5.   |
|                     | Collaborative Computational Project, No. 4, "The CCP4 suite: programs for protein crystallography" <i>Acta Crystallogr D Biol Crystallogr</i> . 1994;50:760-3.   |

EXAMINER

Date Considered

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

MAR 26 2002

TECH CENTER 1600/2900

**INFORMATION  
DISCLOSURE  
STATEMENT**

Atty. Docket No.: 00236.US1

Serial No.: 09/932,474

Applicant(s): T. E. Benson et al.

Confirmation No.: 6629

Filing Date: August 17, 2001

Group: 1651



| Examiner Initial | Document Description   |
|------------------|--|
|                  | Cowtan et al., "Improvement of macromolecular electron-density maps by the simultaneous application of real and reciprocal space constraints," <i>Acta Crystallogr D Biol Crystallogr</i> . 1993 Jan 1;49(1):148-157.  |
|                  | Cowtan et al., "Miscellaneous algorithms for density modification," <i>Acta Crystallogr D Biol Crystallogr</i> . 1998 Jul 1;54(4):487-93.  |
|                  | Cusack et al., "The crystal structure of the ternary complex of <i>T. thermophilus</i> seryl-tRNA synthetase with tRNA <sup>Ser</sup> and a seryl-adenylate analogue reveals a conformational switch in the active site," <i>EMBO J</i> . 1996 Jun 3;15(11):2834-42. |
|                  | Dougherty et al., "The <i>Escherichia coli</i> mutant requiring D-glutamic acid is the result of mutations in two distinct genetic loci," <i>J Bacteriol</i> . 1993 Jan;175(1):111-6.  |
|                  | Duncan et al., "Purification and characterization of the D-alanyl-D-alanine-adding enzyme from <i>Escherichia coli</i> ," <i>Biochemistry</i> . 1990 Mar 6;29(9):2379-86.  |
|                  | Dutnall et al., "Structure of the histone acetyltransferase Hat1: a paradigm for the GCN5-related N-acetyltransferase superfamily," <i>Cell</i> . 1998 Aug 21;94(4):427-38.  |
|                  | Ehlert et al., "Specificities of FemA and FemB for different glycine residues: FemB cannot substitute for FemA in staphylococcal peptidoglycan pentaglycine side chain formation," <i>J Bacteriol</i> . 1997 Dec;179(23):7573-6.                                     |
|                  | Ehlert, "Methicillin-resistance in <i>Staphylococcus aureus</i> - molecular basis, novel targets and antibiotic therapy," <i>Curr Pharm Des</i> . 1999 Feb;5(2):45-55.   |
|                  | Eisen et al., "HOOK: a program for finding novel molecular architectures that satisfy the chemical and steric requirements of a macromolecule binding site," <i>Proteins: Struct Funct Genet</i> . 1994 Jul;19(3):199-221.   |
|                  | Epps et al., "The ligand affinity of proteins measured by isothermal denaturation kinetics," <i>Anal Biochem</i> . 2001 May 1;292(1):40-50.  |
|                  | Evans, "SETOR: hardware-lighted three-dimensional solid model representations of macromolecules," <i>J Mol Graph</i> . 1993 Jun;11(2):134-8.   |
|                  | Finzel, "LORE: exploiting database of known structures," <i>Meth Enzymol</i> . 1997; 277(B):230-42.  |

|   |                        |
|---|------------------------|
| <b>EXAMINER</b>   | <b>Date Considered</b> |
| <p>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p> |                        |

RECEIVED  
MAR 26 2002

|   |                                   |                        |
|---|-----------------------------------|------------------------|
| <b>INFORMATION<br/>DISCLOSURE<br/>STATEMENT</b> | Atty. Docket No.: 00236.US1       | Serial No.: 09/932,474 |
|   | Applicant(s): T. E. Benson et al. | Confirmation No.: 6629 |
|   | Filing Date: August 17, 2001      | Group: 1651            |



| Examiner<br>Initial | Document Description   |
|---------------------|--|
|                     | Gillet et al., "SPROUT: a program for structure generation," <i>J Comput Aided Mol Des.</i> 1993 Apr;7(2):127-53.  |
|                     | Goodford, "A computational procedure for determining energetically favorable binding sites on biologically important macromolecules," <i>J Med Chem.</i> 1985 Jul;28(7):849-57.  |
|                     | Goodsell et al., "Automated docking of substrates to proteins by simulated annealing," <i>Proteins: Struct Funct Genet.</i> 1990;8(3):195-202.   |
|                     | Gubler et al., "Overexpression, purification, and characterization of UDP- <i>N</i> -acetylmuramyl:L-alanine ligase from <i>Escherichia coli</i> ," <i>J Bacteriol.</i> 1996 Feb;178(3):906-10.  |
|                     | Henze et al., "Influence of <i>femB</i> on methicillin resistance and peptidoglycan metabolism in <i>Staphylococcus aureus</i> ," <i>J Bacteriol.</i> 1993 Mar;175(6):1612-20.   |
|                     | Hürlimann-Dalel et al., "Survey of the methicillin resistance-associated genes <i>mecA</i> , <i>mecR1-mecI</i> , and <i>femA-femB</i> in clinical isolates of methicillin-resistant <i>Staphylococcus aureus</i> ," <i>Antimicrob Agents Chemother.</i> 1992 Dec;36(12):2617-21. |
|                     | Ikeda et al. "The <i>Escherichia coli mraY</i> gene encoding UDP- <i>N</i> -acetylmuramoyl-pentapeptide: undecaprenyl-phosphate phospho- <i>N</i> -acetylmuramoyl-pentapeptide transferase," <i>J Bacteriol.</i> 1991 Feb;173(3):1021-6.   |
|                     | Jakubowski, "Aminoacylation of coenzyme A and pantetheine by aminoacyl-tRNA synthetases: possible link between noncoded and coded peptide synthesis," <i>Biochemistry.</i> 1998 Apr 14;37(15):5147-53.   |
|                     | Jiang et al., "Protein hydration observed by X-ray diffraction. Solvation properties of penicillopepsin and neuraminidase crystal structures," <i>J Mol Biol.</i> 1994 Oct 14;243(1):100-15.   |
|                     | Kamiryo et al., "Sequential addition of glycine from glycyl-tRNA to the lipid-linked precursors of cell wall peptidoglycan in <i>Staphylococcus aureus</i> ," <i>Biochem Biophys Res Commun.</i> 1969 Jul 23;36(2):215-22.   |
|                     | Kamiryo et al., "The biosynthesis of the cross-linking peptides in the cell wall peptidoglycan of <i>Staphylococcus aureus</i> ," <i>J Biol Chem.</i> 1972 Oct 10;247(19):6306-11.   |

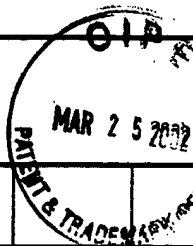
|   |                        |
|---|------------------------|
| <b>EXAMINER</b>   | <b>Date Considered</b> |
| <small>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small> |                        |

MAR 26 2002

RECEIVED

ELECTRONIC CENTER 1600/2900

|   |                                   |                        |
|---|-----------------------------------|------------------------|
| <b>INFORMATION<br/>DISCLOSURE<br/>STATEMENT</b> | Atty. Docket No.: 00236.US1       | Serial No.: 09/932,474 |
|   | Applicant(s): T. E. Benson et al. | Confirmation No.: 6622 |
|   | Filing Date: August 17, 2001      | Group: 1651            |



| Examiner<br>Initial | Document Description  |
|---------------------|---|
|                     | Kopp et al., "Staphylococcal peptidoglycan interpeptide bridge biosynthesis: a novel antistaphylococcal target?" <i>Microb Drug Resist.</i> 1996 Spring;2(1):29-41.   |
|                     | Kraulis, "MOLSCRIPT: a program to produce both detailed and schematic plots of protein structures," <i>J Appl Cryst.</i> 1991 Oct;24:946-950.   |
|                     | Kuntz et al., "A geometric approach to macromolecule-ligand interactions," <i>J Mol Biol.</i> 1982 Oct 25;161(2):269-88.  |
|                     | Laskowski, et al., "PROCHECK: a program to check the stereochemical quality of protein structures," <i>J Appl Cryst.</i> 1993 Apr;26:283-291.   |
|                     | Lattman, "Use of the rotation and translation functions," <i>Methods Enzymol.</i> 1985;115:55-77.   |
|                     | Lauri et al., "CAVEAT: a program to facilitate the design of organic molecules," <i>J Comput Aided Mol Des.</i> 1994 Feb;8(1):51-66.  |
|                     | Liger et al., "Over-production, purification and properties of the uridine-diphosphate- <i>N</i> -acetylmuramate:L-alanine ligase from <i>Escherichia coli</i> ," <i>Eur J Biochem.</i> 1995 May 15;230(1):80-7.  |
|                     | Ling et al., "Increased overall antibiotic susceptibility in <i>Staphylococcus aureus</i> femAB null mutants," <i>Antimicrob Agents Chemother.</i> 1998 Apr;42(4):936-8.  |
|                     | Lu, "TOP: a new method for protein structure comparisons and similarity searches," <i>J Appl Cryst.</i> 2000 Feb;33(1):176-183.   |
|                     | Maidhof et al., " <i>femA</i> , which encodes a factor essential for expression of methicillin resistance, affects glycine content of peptidoglycan in methicillin-resistant and methicillin-susceptible <i>Staphylococcus aureus</i> strains," <i>J Bacteriol.</i> 1991 Jun;173(11):3507-13. |
|                     | Marahiel et al., "Modular Peptide Synthetases Involved in Nonribosomal Peptide Synthesis," <i>Chem Rev.</i> 1997;97(7):2651-2673.   |
|                     | Marquardt et al., "Cloning and sequencing of <i>Escherichia coli</i> <i>murZ</i> and purification of its product, a UDP- <i>N</i> -acetylglucosamine enolpyruvyl transferase," <i>J Bacteriol.</i> 1992 Sep;174(17):5748-52.  |
|                     | Martin, "3D database searching in drug design," <i>J Med Chem.</i> 1992 Jun 12;35(12):2145-54.  |

|  |                        |
|--|------------------------|
| <b>EXAMINER</b>  | <b>Date Considered</b> |
| *Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                        |



RECEIVED

MAR 26 2002

TECH CENTER 1600/2900

INFORMATION  
DISCLOSURE  
STATEMENT

Atty. Docket No.: 00236.US1

Serial No.: 09/932,474

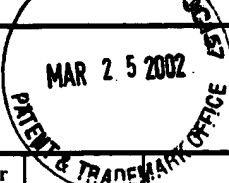
Applicant(s): T. E. Benson et al.

Confirmation No.: 6629

Filing Date: August 17, 2001

Group: 1651

MAR 25 2002



| Examiner Initial | Document Description   |
|------------------|--|
|                  | Maruyama et al., "Determination of gene products and coding regions from the <i>murE-murF</i> region of <i>Escherichia coli</i> ," <i>J Bacteriol.</i> 1988 Aug;170(8):3786-8.   |
|                  | Matsushashi et al., "Biosynthesis of the peptidoglycan of bacterial cell walls," <i>J Biol Chem.</i> 1967 Jul 10;242(13):3191-3206.  |
|                  | Meng et al., "Automated docking with grid-based energy evaluation," <i>J Comp Chem.</i> 1992 May;13(4):505-524.  |
|                  | Mengin-Lecreux et al., "The <i>murG</i> gene of <i>Escherichia coli</i> codes for the UDP- <i>N</i> -acetylglucosamine: <i>N</i> -acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol <i>N</i> -acetylglucosamine transferase involved in the membrane steps of peptidoglycan synthesis," <i>J Bacteriol.</i> 1991 Aug;173(15):4625-36. |
|                  | Michaud et al., "Over-production, purification and properties of the uridine-diphosphate- <i>N</i> -acetylmuramoyl-L-alanyl-D-glutamate: <i>meso</i> -2,6-diaminopimelate ligase from <i>Escherichia coli</i> ," <i>Eur J Biochem.</i> 1990 Dec 27;194(3):853-61.  |
|                  | Miranker et al., "Functionality maps of binding sites: a multiple copy simultaneous search method," <i>Proteins: Struct Funct Genet.</i> 1991;11(1):29-34.   |
|                  | National Institutes of Health, "BLAST 2 Sequences," [online] United States; retrieved August 29, 2001 from the Internet: <URL:http://www.ncbi.nlm.nih.gov/gorf/bl2.html>, 1 pg.  |
|                  | Neu, "The crisis in antibiotic resistance," <i>Science.</i> 1992 Aug 21;257(5073):1064-73.   |
|                  | Nishibata et al., "Automatic creation of drug candidate structures based on receptor structure. Starting point for artificial lead generation," <i>Tetrahedron.</i> 1991;47(43):8985-90.   |
|                  | Otwinowski, "Maximum likelihood refinement of Heavy atom parameters," <i>Isomorphous replacement and anomalous scattering - Proceedings of the CCP4 Study Weekend 25-26 January 1991</i> , (W. Wolf et al., eds.) Science and Engineering Research Counsel, Daresbury Laboratory, Warrington, U.K. 80-86 (1991).                             |

EXAMINER

Date Considered

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

MAR 26 2002

TECH CENTER 1600/2000

INFORMATION  
DISCLOSURE  
STATEMENT

Atty. Docket No.: 00236.US1

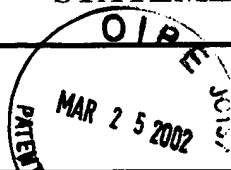
Serial No.: 09/932,474

Applicant(s): T. E. Benson et al.

Confirmation No.: 6629

Filing Date: August 17, 2001

Group: 1651



| Examiner<br>Initial | Document Description  |
|---------------------|---|
|                     | Ramakrishnan et al., "Crystal structure of globular domain of histone H5 and its implications for nucleosome binding," <i>Nature</i> . 1993 Mar 18;362(6417):219-23.  |
|                     | Reynolds, "The essential nature of staphylococcal penicillin-binding proteins," <i>Antibiotic inhibition of bacterial cell surface assembly and function</i> , Actor et al., eds.; American Society of Microbiology, Washington, DC (Based on an ASM conference held at the College of Physicians of Philadelphia on May 17-20, 1987) 1988:343-351. |
|                     | Rohrer et al., "The essential <i>Staphylococcus aureus</i> gene <i>fmbB</i> is involved in the first step of peptidoglycan pentaglycine interpeptide formation," <i>Proc Natl Acad Sci U S A</i> . 1999 Aug 3;96(16):9351-6.  |
|                     | Rojas et al., "Structure of <i>Tetrahymena</i> GCN5 bound to coenzyme A and a histone H3 peptide," <i>Nature</i> . 1999 Sep 2;401(6748):93-8.   |
|                     | Rossman, ed., <i>The Molecular Replacement Method - A Collection of Papers on the Use of Non-Crystallographic Symmetry</i> , Intl. Sci. Rev. Ser. No. 13, Gordon & Breach, New York, NY; title page, publication page, and table of contents only: 6 pages (1972).  |
|                     | Sack, "CHAIN - A Crystallographic Modeling Program," <i>J Molecular Graphics</i> . 1988 Dec; 6(4):224-5.  |
|                     | Sheldrick et al., "Structure solution by iterative peaklist optimization and tangent expansion in space group <i>P1</i> ," <i>Acta Crystallogr B</i> . 1995 Aug 1;51(Pt 4):423-31.  |
|                     | Strandén et al., "Cell wall monoglycine cross-bridges and methicillin hypersusceptibility in a <i>femAB</i> null mutant of methicillin-resistant <i>Staphylococcus aureus</i> ," <i>J Bacteriol</i> . 1997 Jan;179(1):9-16.   |
|                     | Tatusova et al., "BLAST 2 Sequences, a new tool for comparing protein and nucleotide sequences," <i>FEMS Microbiol Lett</i> . 1999 May 15;174(2):247-50.  |
|                     | Terwilliger et al., "Class-directed structure determination: foundation for a protein structure initiative," <i>Protein Sci</i> . 1998 Sep;7(9):1851-6.   |
|                     | Thorndike et al., "A method for demonstrating the stepwise addition of glycine from transfer RNA into the murein precursor of <i>Staphylococcus aureus</i> ," <i>Biochem Biophys Res Commun</i> . 1969 Jun 6;35(5):642-7.   |

EXAMINER

Date Considered

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION  
DISCLOSURE  
STATEMENT**

Atty. Docket No.: 00236.US1

Serial No.: 09/932,474

Applicant(s): T. E. Benson et al.

Confirmation No.: 6629

Filing Date: August 17, 2001

Group: 1651



MAR 26 2002

RECEIVED

| Examiner<br>Initial | Document Description   |
|---------------------|--|
|                     | Travis, "Proteins and organic solvents make an eye-opening mix," <i>Science</i> . 1993 Nov 26;262(5138):1374.  |
|                     | Trievel et al., "Crystal structure and mechanism of histone acetylation of the yeast GCN5 transcriptional coactivator," <i>Proc Natl Acad Sci U S A</i> . 1999 Aug 3;96(16):8931-6.                                      |
|                     | Tschierske et al., "Identification of three additional <i>femAB</i> -like open reading frames in <i>Staphylococcus aureus</i> ," <i>FEMS Microbiol Lett</i> . 1999 Feb 15;171(2): 97-102.                                |
|                     | Wada et al., "Penicillin-binding protein 1 of <i>Staphylococcus aureus</i> is essential for growth," <i>J Bacteriol</i> . 1998 May;180(10):2759-65.  |
|                     | Wolf et al., "Crystal structure of a GCN5-related N-acetyltransferase: <i>Serratia marcescens</i> aminoglycoside 3-N-acetyltransferase," <i>Cell</i> . 1998 Aug 21; 94(4):439-49.  |
|                     | Wybenga-Groot et al., "Crystal structure of an aminoglycoside 6'-N-acetyltransferase: defining the GCN5-related N-acetyltransferase superfamily fold," <i>Structure Fold Des</i> . 1999 May;7(5):497-507.                |
|                     | Wyckoff et al., eds., <i>Methods in Enzymology Vol. 114 - Diffraction Methods for Biological Macromolecules</i> , Academic Press, Orlando, FL; title page, publication page, and table of contents only: 5 pages (1985). |
|                     | Wyckoff et al., eds., <i>Methods in Enzymology Vol. 115 - Diffraction Methods for Biological Macromolecules</i> , Academic Press, Orlando, FL; title page, publication page, and table of contents only: 4 pages (1985). |
|                     | Wyke et al., "A role <i>in vivo</i> for penicillin-binding protein-4 of <i>Staphylococcus aureus</i> ," <i>Eur J Biochem</i> . 1981 Oct;119(2):389-93.   |

|  |                        |
|--|------------------------|
| <b>EXAMINER</b>  | <b>Date Considered</b> |
| *Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                        |